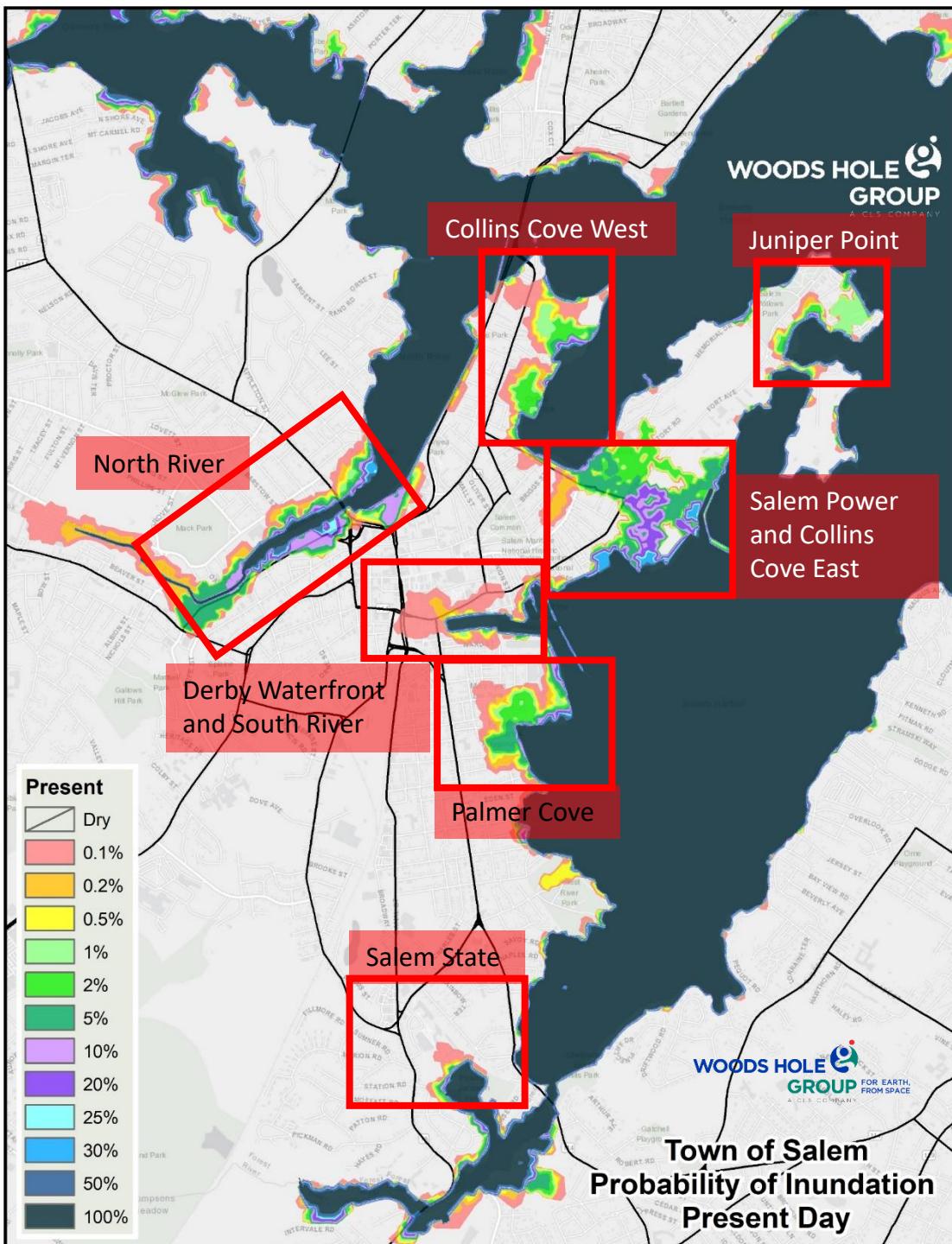


## Mapping Future Flood Risk and Prioritizing Coastal Resilience for Salem MA



Kirk F. Bosma, P.E.  
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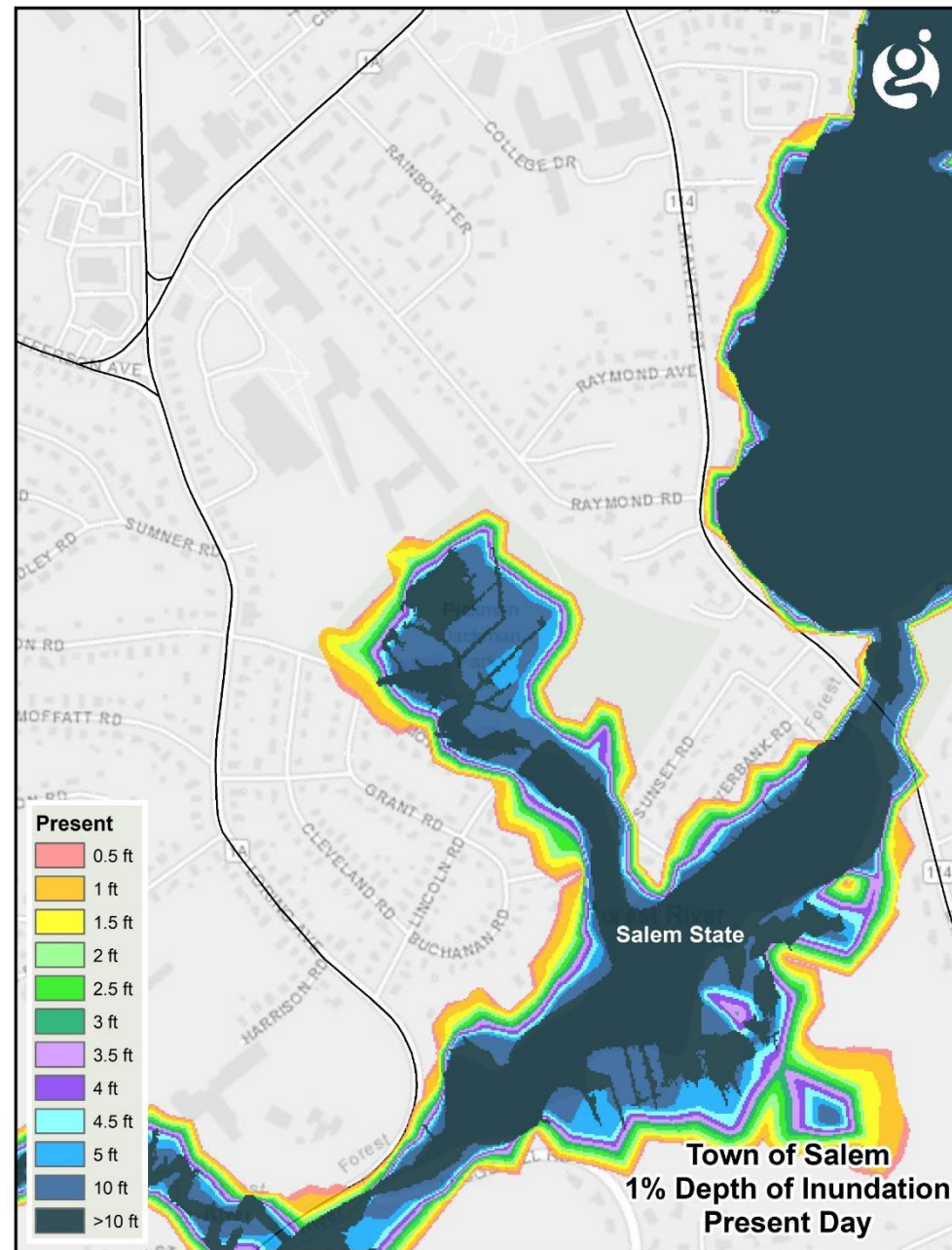
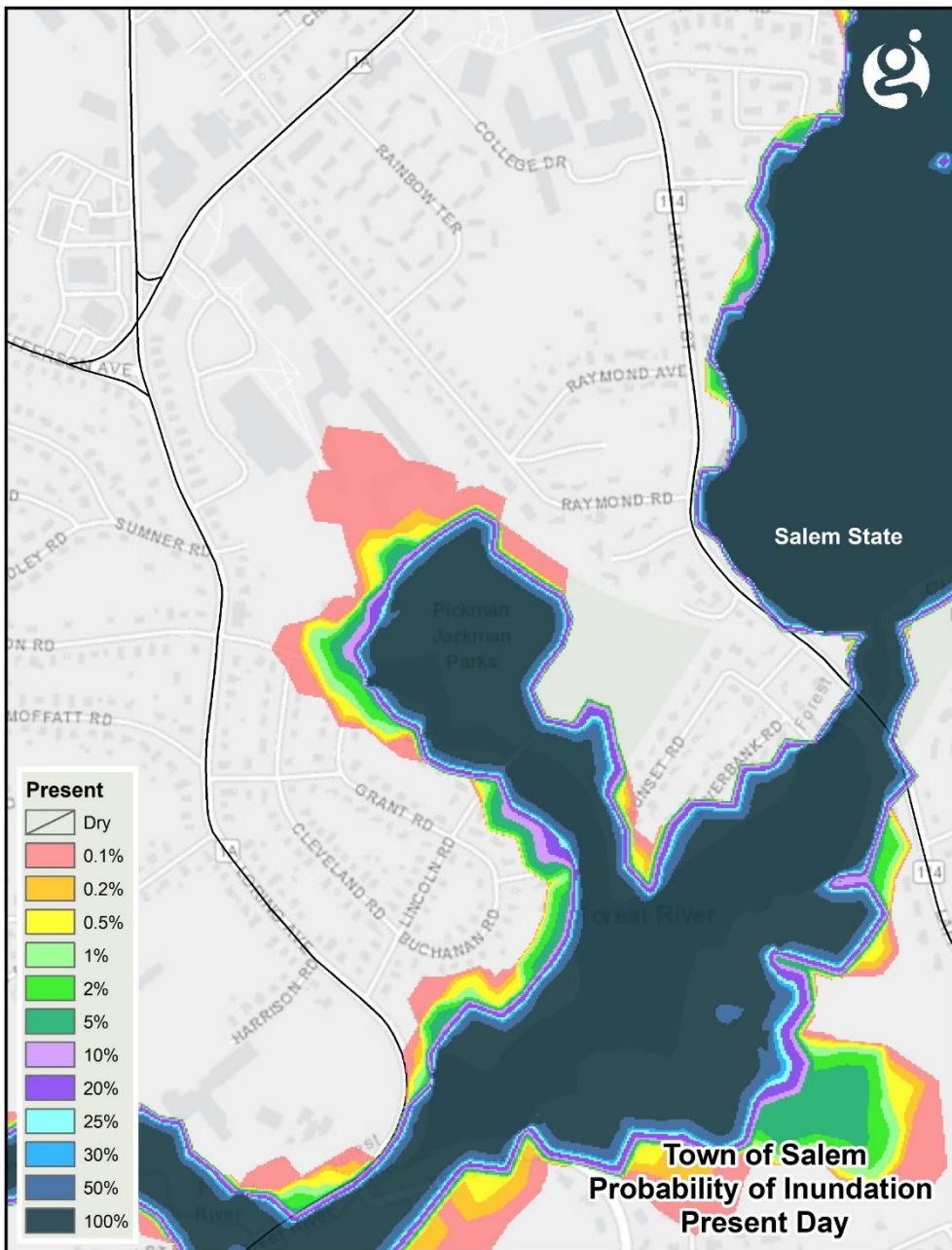
# Coastal Flood Exceedance Probability Map for Salem MA – Present Day

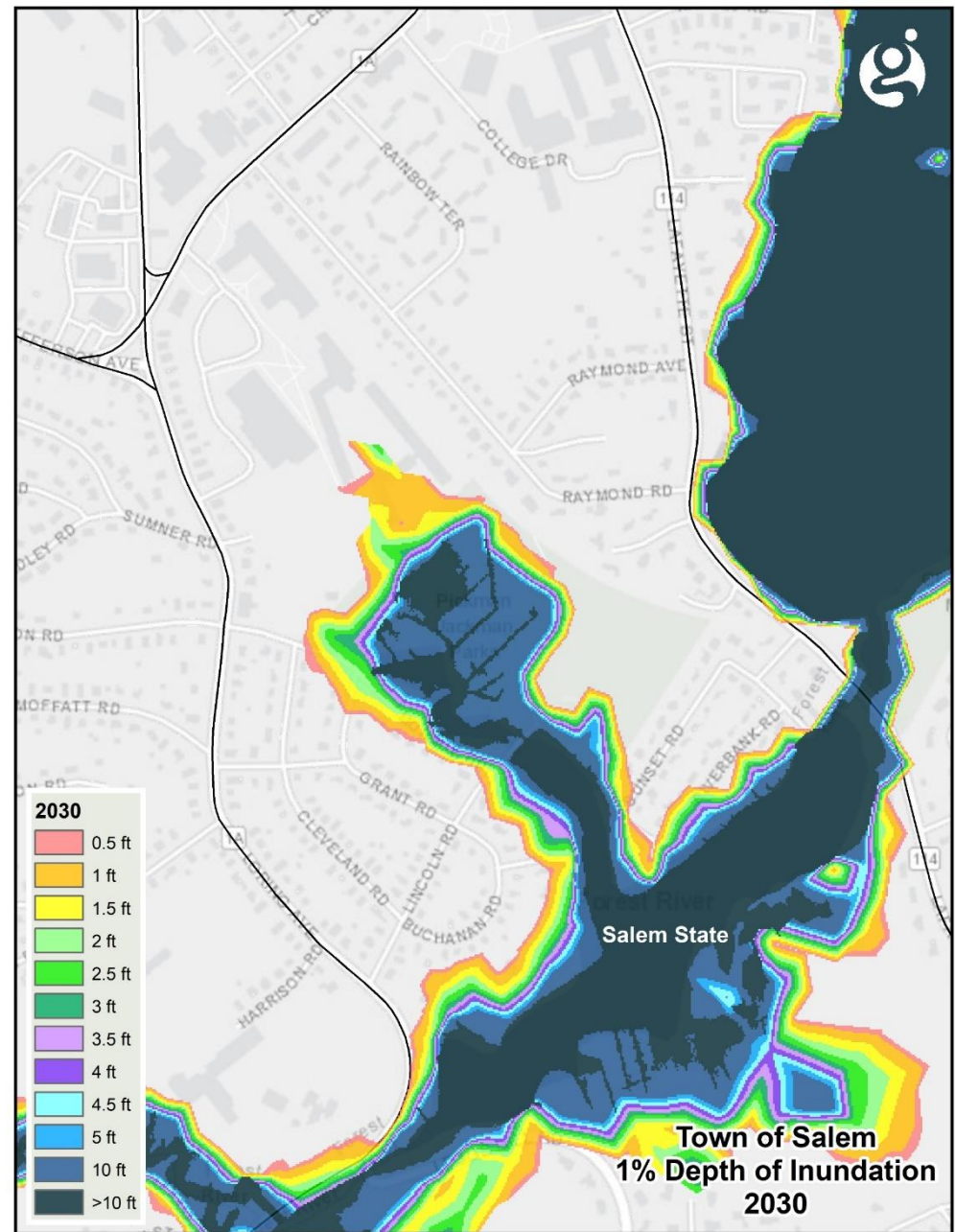
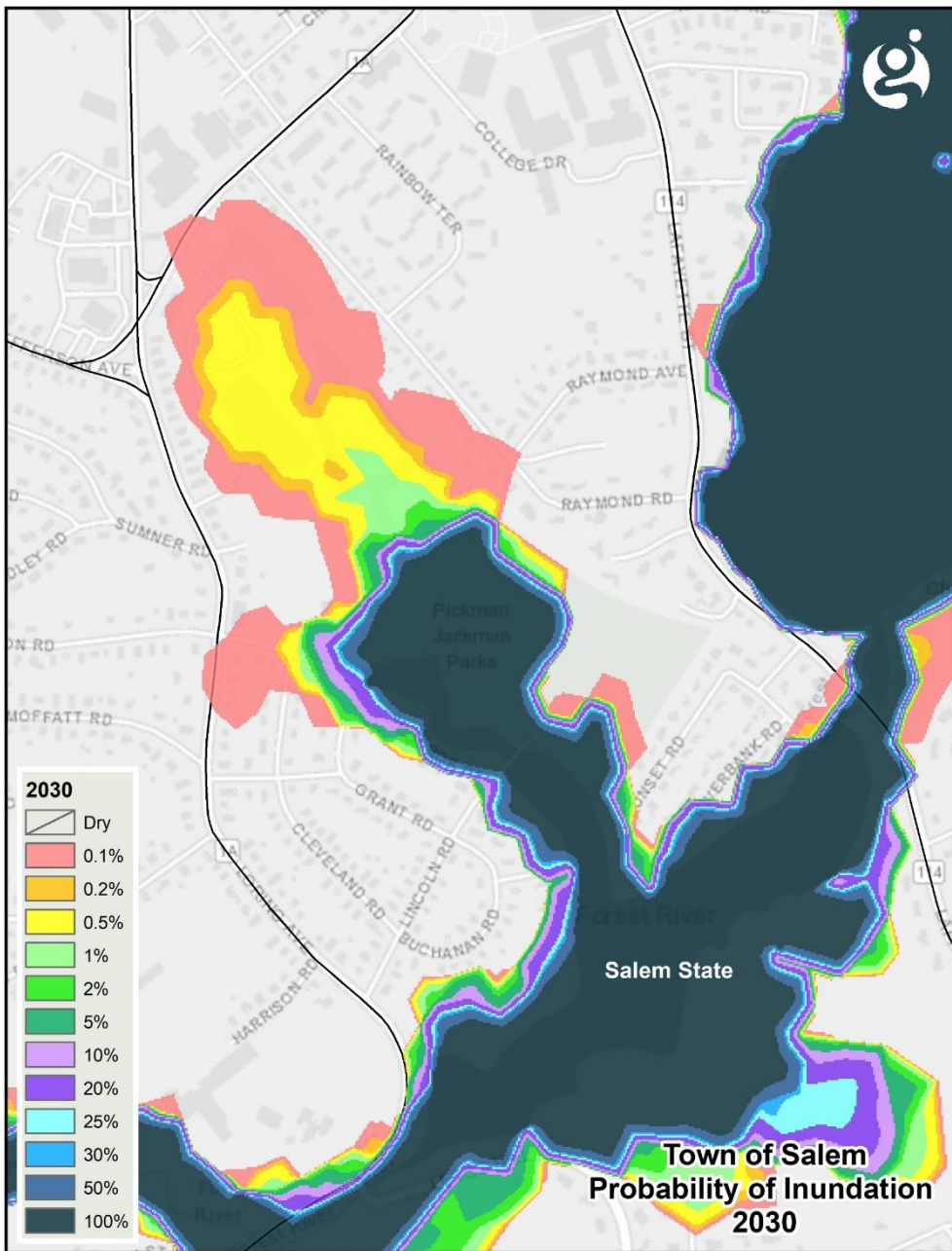


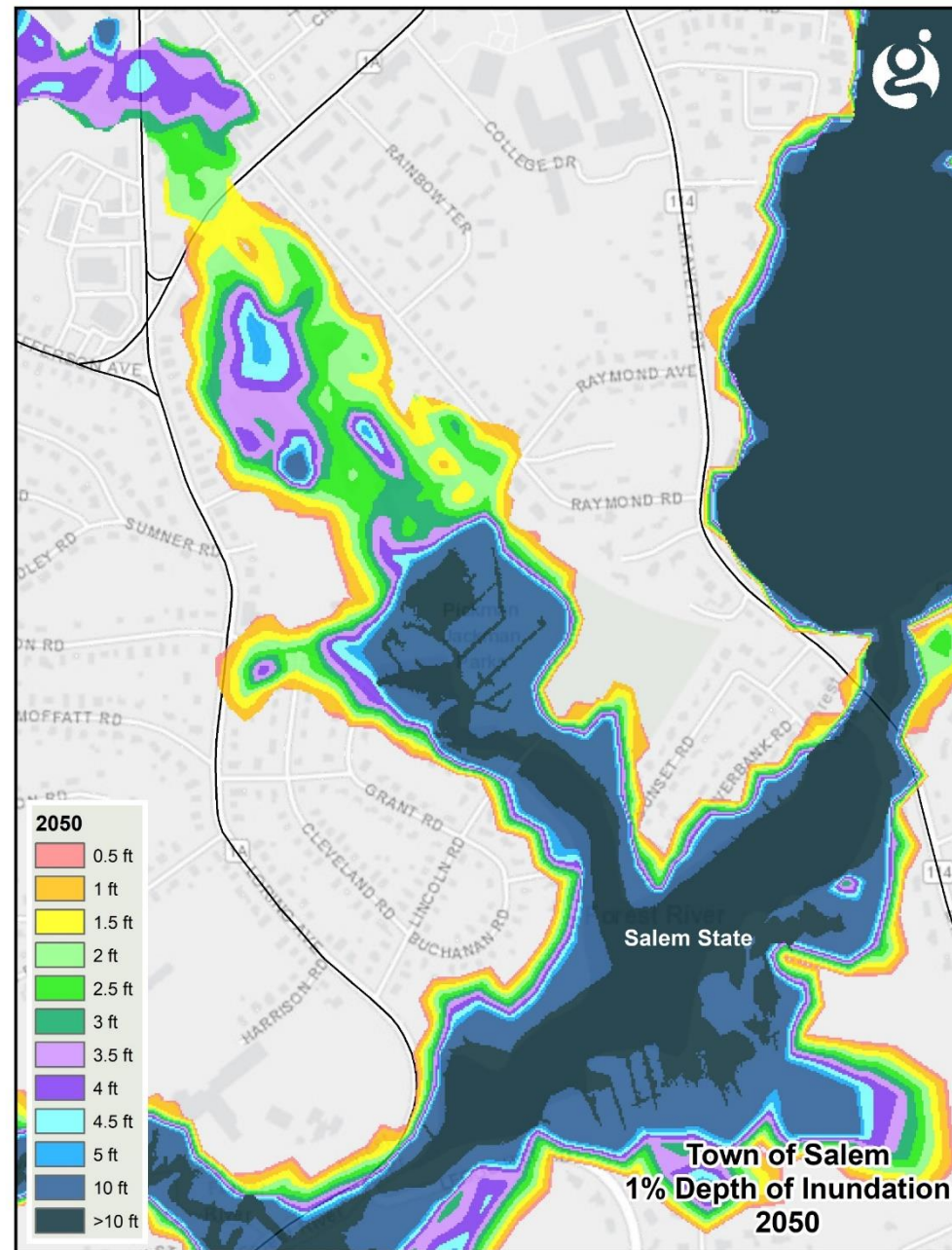
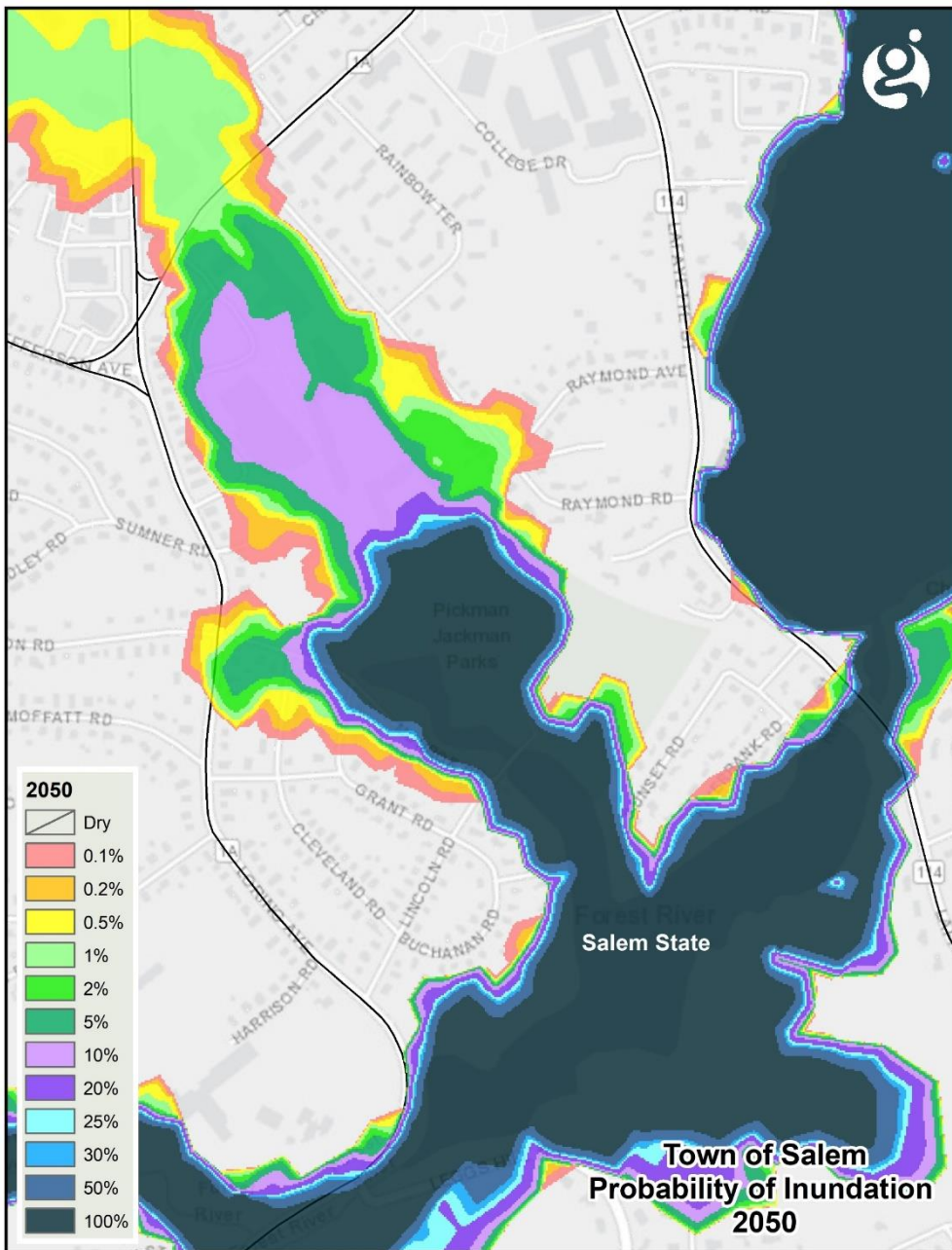
Salem State University  
and the Forest River

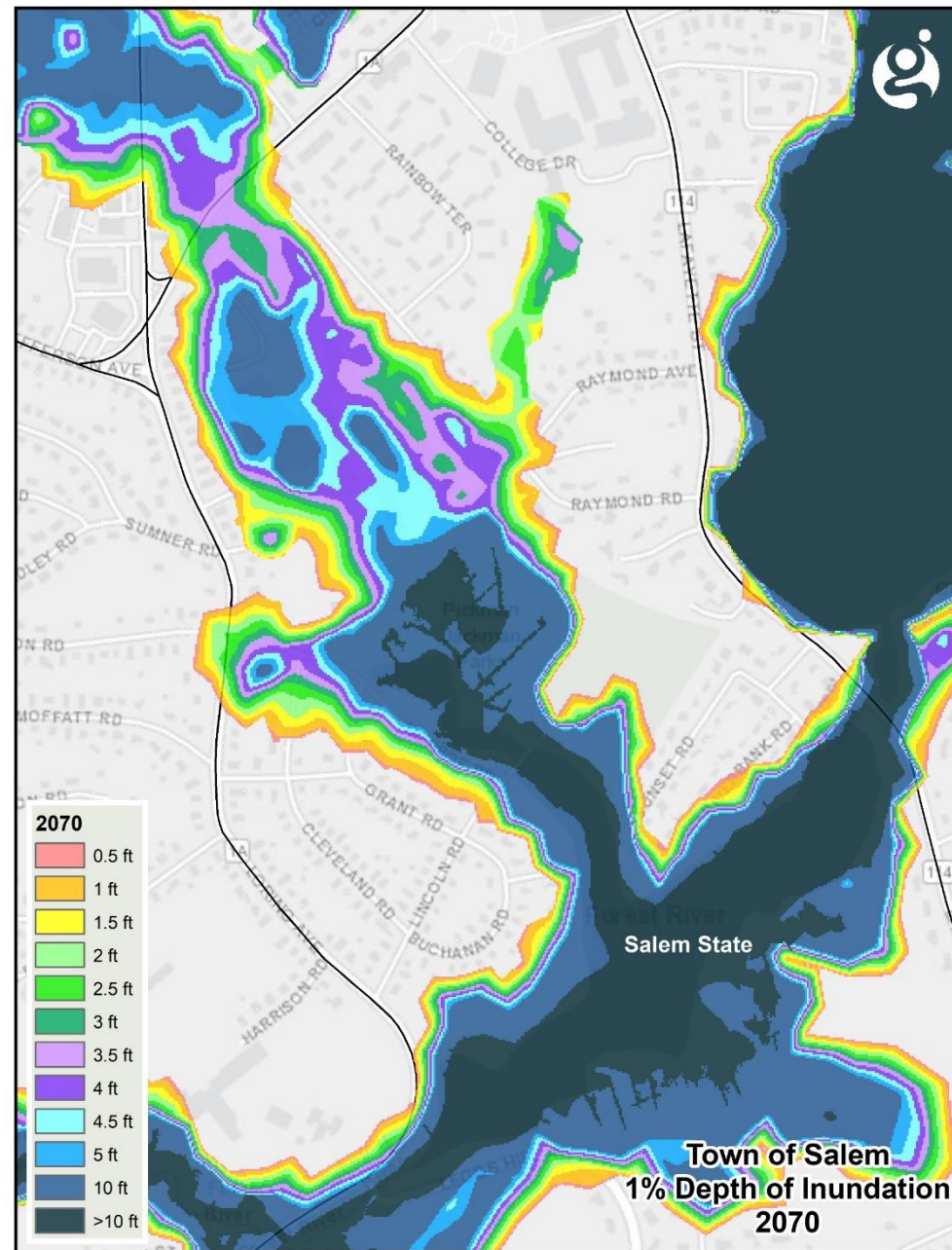
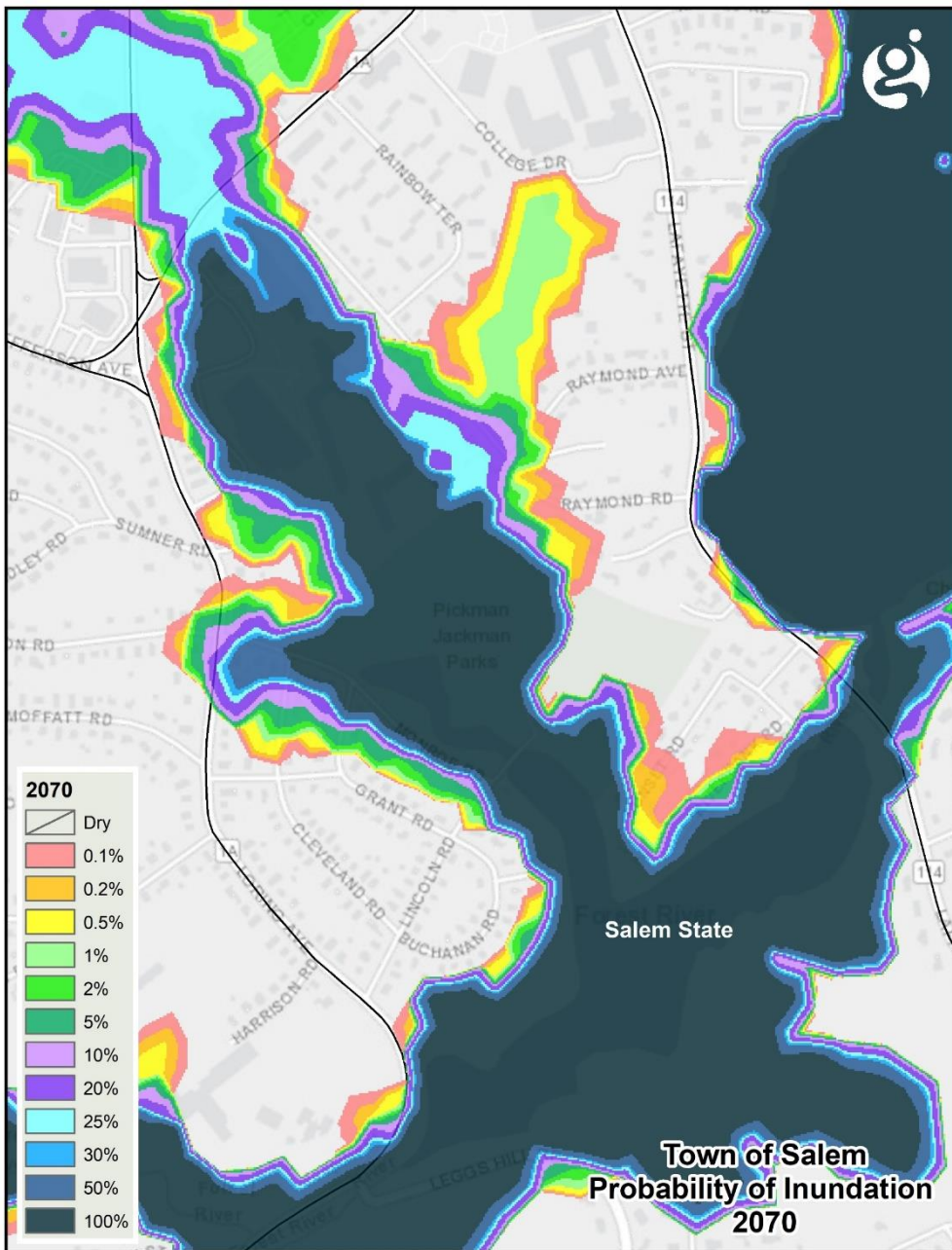
The following slides focus on the increasing flooding risk for Salem State University from sea level rise and increased storms from the two tidal rivers – Forest and South Rivers.

To view the full recorded presentation, go to [www.salemsound.org](http://www.salemsound.org)









The 1875 US Coast and Geodetic Survey map excerpt shows the South River and the Forest River before the area was filled. Based on elevations and historical accounts, the two rivers became one at times of intense flooding.









# SALEM STATE



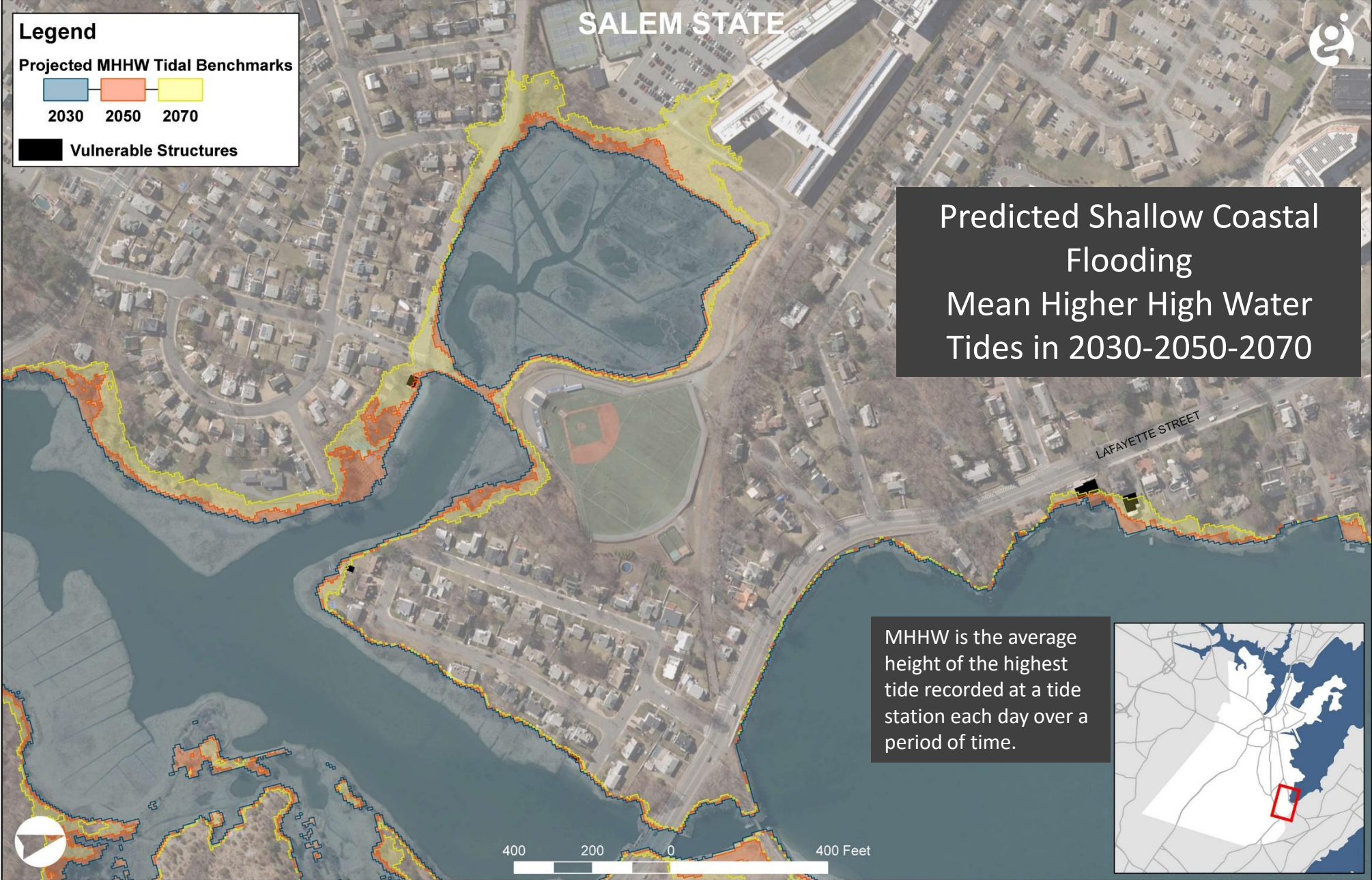
**Legend**

Projected MHHW Tidal Benchmarks

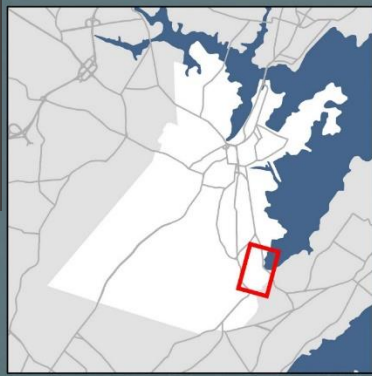
		
2030	2050	2070

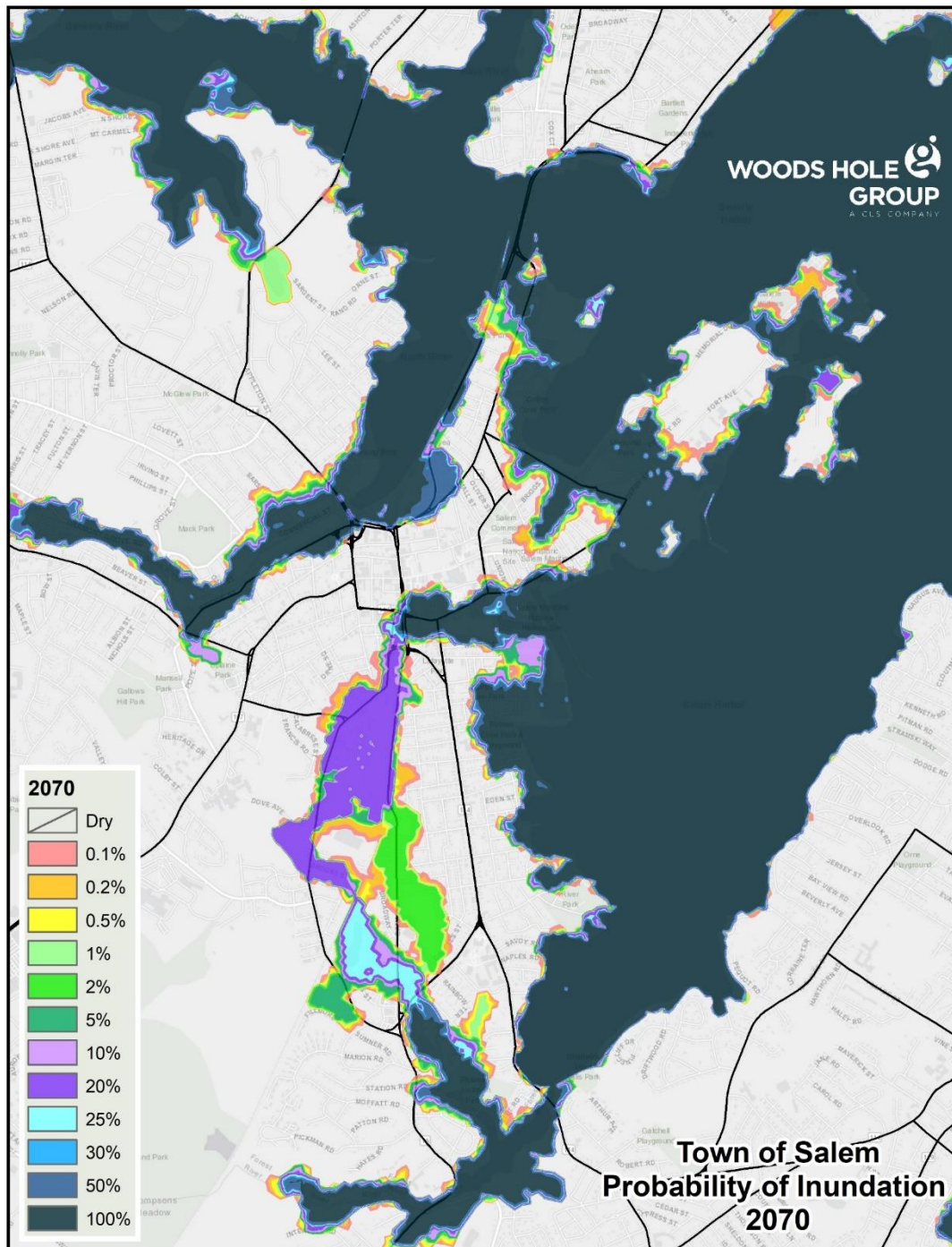
 Vulnerable Structures

Predicted Shallow Coastal Flooding  
Mean Higher High Water  
Tides in 2030-2050-2070



MHHW is the average height of the highest tide recorded at a tide station each day over a period of time.





For more information on

*Mapping Future Flood Risk and  
Prioritizing Coastal Resilience  
for Salem MA*

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